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Form 504
Ed. June, 1928

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY
R. S. Patton

U. S. COAST & GEODETIC SURVEY
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MAR 19 1931

State: Alaska

Acc. No. _____

DESCRIPTIVE REPORT

~~Topographic~~ } Sheet No. 41
~~Hydrographic~~ } 5084

LOCALITY

Kodiak Island

Off Cape Alitak

1930

CHIEF OF PARTY

F. H. Hardy, H & G. E.

U. S. GOVERNMENT PRINTING OFFICE: 1924

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

REG. NO. 5084

HYDROGRAPHIC TITLE SHEET

The Hydrographic Sheet should be accompanied by this form, filled in as completely as possible, when the sheet is forwarded to the Office.

Field No.41....

REGISTER NO. 5084

State.....Alaska.....
General locality.....Kodiak Island.....
Locality.....Off Cape Alitak.....
Scale 1:40,000..... Date of survey August - Sept., 1930
Vessel Str. Surveyor.....
Chief of Party F. H. Hardy.....
Surveyed by F. H. Hardy, R. J. Sipe.....
Protracted by H. F. Garber.....
Soundings penciled by H. F. Garber.....
Soundings in fathoms feet
Plane of reference M. L. L. W.
Subdivision of wire dragged areas by.....
Inked by J. D. Torrey.....
Verified by J. D. T.
Instructions dated April, 1....., 1930
Remarks:.....
.....

DISCRIPTIVE REPORT
to accompany
HYDROGRAPHIC SHEET 41.
Scale 1: 40,000

Str. Surveyor

F. H. Hardy, Com'd'g

INSTRUCTIONS

The survey of sheet 41 was executed during the 1930 Alaska season in accordance with instructions dated April 1, 1930 and referenced 10- R. S. and as modified by telegrams from Chief of party dated August 15 1930 and from director Aug 19th. *Telegrams sent through Seattle Field Station.*

SURVEY METHODS

Except for a small area south of Cape Alitak which was sounded by the motor sailer, the hydrography was executed by the Surveyor. Three point fixes were observed on triangulation and topographic signals.

The fathometer was used for sounding in depths over fifteen fathoms. Frequent vertical casts were taken for comparison with the fathometer. South of Low Cape and in rapidly changing depths it was not practical to change from the fathometer to handlead in fifteen fathoms. Otherwise the handlead was used in depths less than fifteen fathoms.

COMPARISON WITH PREVIOUS SURVEYS.

Small differences which maybe attributed to irregular bottom or the probable error of the fathometer were noted at the junction of sheet 41 and sheet 4971. Other previous surveys in this locality were reconnaissance in character and comparisons are not noted.

SHORELINE

As the shoreline is shown on sheets 23, 24, and 4971 on a 1:20,000 sheets it was not transferred to this sheet in accordance with paragraph 28 page 4 of the Hydrographic Manual. ✓

DANGERS

There are no dangers within the limits of the hydrography shown on this sheet. ✓

LANDMARKS FOR CHARTS

Landmarks for charts are a part of landmarks for sheet 101. ✓

ANCHORAGES

Only emergency anchorages are available within the limits of hydrography of this sheet. ✓

LIST OF CROSSINGS

Sheet #41.

Note:--- If a sounding on a cross line differed by only one fathom no record was made of it, the shoaler sounding being plotted. ✓

Note #2 -- Where a fathometer sounding and a vertical cast differed, the V. C. sounding was plotted. In no instance was this difference greater than one fathom.

DISCREPANCIES

Lat. 56° 53'.0 - Long. 154° 27'.0

On a crossing between 69- 70 F (21 Fms.) and 89 - 90 K (26 Fms.) There was a difference of 5 fathoms. There is a steep slope here. ✓

Between 68 - 70 H and 10 - 11 H, depth curves are unusual. ✓

It is noted that between positions 10 H To 11 H, and 68 H to 70 H the soundings are slightly deeper than the surrounding depths. This probably accounted for by the change of observers at these times. ✓

TIDES

For the reduction of soundings a standard tide gauge was maintained on the Pacific American Fisheries Dock at Lazy Bay.

Respectfully submitted,

Ed Meaney
Hfg Engr
U.S. Cogs.

Forwarded
Forwardy

STATISTICS OF HYDROGRAPHIC

SHEET #41

Str. Surveyor, 1930

Date	Day	Vol.	No. of Sdgs.	No. of Positions	Statute Miles Sdg. line	
8/9/30	A	1	556	121	61.7	
8/11/30	B	1	198	37	18.5	
8/12/30	C	1	374	76	37.5	
8/15/30	D	1&2	350	74	47.6	
8/16/30	E	2	84	23-18	11.4	
8/18/30	F	2	553	127	75.0	
8/19/30	G	2&3	607	151	99.8	
8/20/30	H	3	357	82	58.9	
8/21/30	J	3	653	157	106.7	
8/27/30	K	3&4	332	96	47.8	
8/30/30	L	4	569	140	90.0	
9/4/30	M	4	78	26	13.6	
9/10/30	N	4	353	65	29.7	
9/15/30	P	4	170	50	20.5	
9/17/30	Q	5	155	44	18.6	
8/20/30	a	6	91	32	6.3	M/S.
Total			5480	1301	743.6	

1296

20.7

LIST OF SIGNALS.

Hydrographic Sheet # 41

Hydrographic Name

Location.

High
Twin
Tak
Emo
Mount
Rod
South
Tan
Bluff
Dome
Gump
Lig
Low
May
Wart
Val
Big
Ro
Sharp
Top

High, 1906
North Twin, 1919
Alitak, 1929
Emo, 1929
Mount, 1929
Rodnan, 1929
South Twin, 1929
Tanner, 1929
Bluff, 1930
Dome, 1930
Gump, 1930
Light, 1930
Low Cape², 1930
May, 1930
Wart, 1930
Valley Point², 1930
Topographic sheet "C"
T-- 4468
Topographic sheet "D"
Topographic sheet "H"

(FOR FILING OF FIELD RECORDS SECTION)

March 25, 1951

Division of Hydrography and Topography:

✓ Division of Charts:

Tide Reducers are approved in
6 volumes of sounding records for

HYDROGRAPHIC SHEET

5084

Locality **Off Cape Akutan, Adak I., S.W. Alaska**

Chief of Party: **F. E. Hardy in 1950**
Plane of reference is **mean lower low water, reading**
3.6 ft. on tide staff at **Long Bay**
14.2 ft. below B. M. **1**

Condition of records satisfactory except as checked below:

1. Locality and sublocality of survey omitted.
2. Month and day of month omitted.
3. Time meridian not given at beginning of day's work.
4. Time (whether A.M. or P.M.) not given at beginning of day's work.
5. Soundings (whether in feet or fathoms) not clearly shown in record.
6. Leadline correction entered in wrong column.
7. Field reductions entered in "Office" column.
8. Location of tide gauge not given at beginning of day's work.
9. Leadline corrections not clearly stated.
10. Kind of sounding tube used not stated.
11. Sounding tube No. entered in column of "Soundings" instead of "Remarks".
12. Legibility of record could be improved.
13. Remarks.

F. E. Hardy
Chief, Division of Tides and Currents.

Section of Field Records.
Report on Hydrographic Sheet No. 5084.
Cape Alitak. Alaska.

Surveyed in 1930.

Instructions dated April 1, 1930 (Surveyor)
Chief of Party F.H. Hardie.

Surveyed by F.H. Hardie and R.J. Sipe.

Protracted and soundings plotted by
T.H. Garber.

Verified and inked by J. D. Torrey.

1. The records conform to the requirements of the General Instructions.
2. The plan and Character of development conforms to the requirements of the General Instructions.
3. The plan and extent of development satisfy the specific instructions
4. The sounding line crossings are adequate.
5. The information is sufficient for drawing the depth curves.
6. The field protracting is satisfactory.
7. The field plotting had numerous errors due to the failure to note changes from one system of sounding to the other

8. The discrepancies referred to in the Descriptive Report are evidently due to error in reading the Fathometer; the 26 fathom sounding on line 89-90 K plate over a 21 fathom sounding on line 69-70 F the 26 fathom sounding is evidently correct but slightly of position.
- 9 Adjoining sheets not completed.

J. D. Torrey.

SECTION OF FIELD RECORDS

Report on Hydrographic Sheet No. 5084
Off Cape Alitak, Kodiak Island, Alaska
Surveyed in 1930
Fathometer and handlead soundings
Instructions dated April 1, 1930. (Surveyor)

Chief of Party - F. H. Hardy.
Surveyed by - F. H. Hardy, R. J. Sipe.
Protracted by - H. F. Garber.
Soundings plotted by - H. F. Garber.
Verified and inked by - J. D. Torrey.

1. The records conform to the requirements.
2. The plan, character and extent of the survey satisfy the general and specific instructions except that the fathometer was often used in depths under 15 fathoms and no tabulation of fathometer soundings and vertical casts is filed in the descriptive report.
3. There are very few crossings on the sheet but the agreement between adjacent lines is generally very good: The discrepancies mentioned in the descriptive report were investigated and are considered of minor importance.
4. The information is sufficient for completely drawing the usual depth curves.
5. The junctions with H. 5081 and H. 5089 will be reported in the reviews of those sheets when they are completed.

The junctions with H. 4971 and H. 5088 are satisfactory and except for a few small differences, which may be attributed to the probable error of the fathometer or irregularity of the bottom, the agreement is very good.

There is no previous survey in this area.

6. The usual amount of field plotting was well done by the field party except that tenths of a fathom were not correctly shown on the sheet, five tenths was frequently carried over to the next fathom instead of being dropped.
7. Character and scope of surveying.

The ground is very uniformly covered although in a few places the distance between lines slightly exceeds one quarter of a mile.

There are no dangers or spots requiring very close development. The survey is considered very good.

Report H. 5084.

8. Additional work is not required.
9. Reviewed by R. L. Johnston - April 28, 1931.

Inspected by - A. L. Shalowitz.

A ridge running in a general southerly direction beyond the 20 fathom curve in longitude 154 - 32 might have been further investigated, although the depths are not such as to indicate any dangers.

The old work in this locality is of a reconnaissance nature and was not inspected.

Approved: A. M. Sobieralski. *(Signed)*